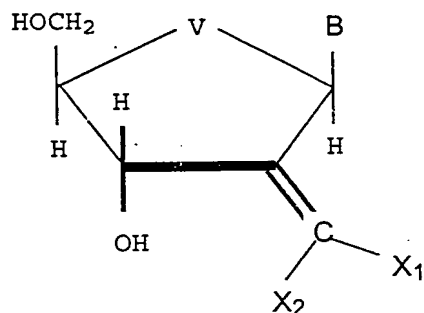


# CLAIMS

1. A compound of the formula



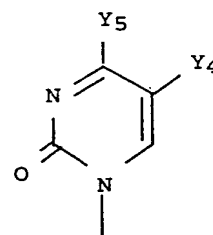
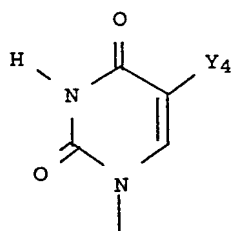
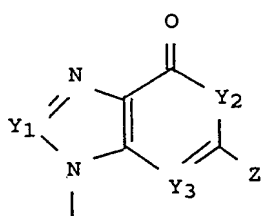
wherein

V is oxy, methylene, or thio,

X<sub>1</sub> and X<sub>2</sub> are each independently hydrogen or halogen,

with the proviso that at least one of X<sub>1</sub> and X<sub>2</sub> is halogen,

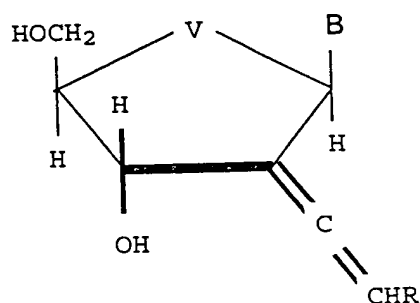
B is a radical of the formula



wherein Y<sub>1</sub> is nitrogen, a CH group, a CCl group, a CBr group or a CNH<sub>2</sub> group; Y<sub>2</sub> and Y<sub>3</sub> are each independently nitrogen or a CH group; Y<sub>4</sub> is hydrogen, C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub>

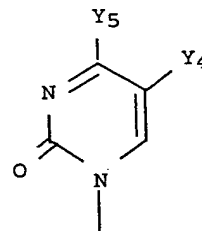
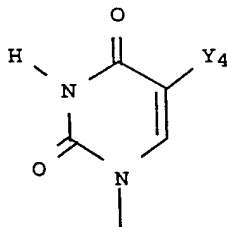
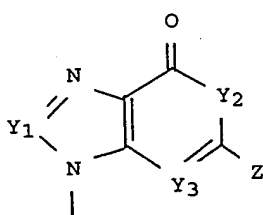
alkoxy or halogen; Y<sub>5</sub> is amino or C<sub>1</sub>-C<sub>4</sub> alkoxy; and Z is hydrogen, halogen, or NH<sub>2</sub>;  
or a pharmaceutically acceptable salt thereof.

2. A compound of the formula



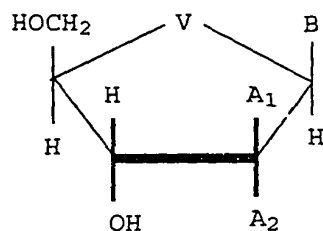
wherein

V is oxy, methylene, or thio,  
R is hydrogen or C<sub>1</sub>-C<sub>4</sub> alkyl,  
B is a radical of the formula



wherein Y<sub>1</sub> is nitrogen, a CH group, a CCl group, a CBr group or a CNH<sub>2</sub> group; Y<sub>2</sub> and Y<sub>3</sub> are each independently nitrogen or a CH group; Y<sub>4</sub> is hydrogen, C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy or halogen; Y<sub>5</sub> is amino or C<sub>1</sub>-C<sub>4</sub> alkoxy; and Z is hydrogen, halogen, or NH<sub>2</sub>;  
or a pharmaceutically acceptable salt thereof.

3. A compound of the formula

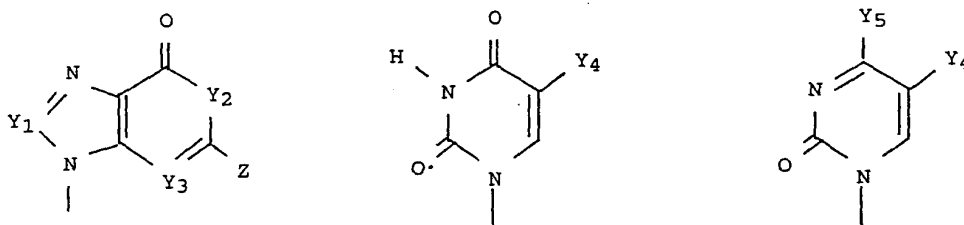


wherein

V is oxy, methylene, or thio,

A<sub>1</sub> and A<sub>2</sub> are each independently hydrogen or a -C CR group, wherein R is hydrogen or C<sub>1</sub>-C<sub>4</sub> alkyl, with the proviso that where A<sub>1</sub> is hydrogen A<sub>2</sub> is a -C CR group, and where A<sub>1</sub> is a -C CR group A<sub>2</sub> is hydrogen,

B is a radical of the formula



wherein Y<sub>1</sub> is nitrogen, a CH group, a CCl group, a CBr group or a CNH<sub>2</sub> group; Y<sub>2</sub> and Y<sub>3</sub> are each independently nitrogen or a CH group; Y<sub>4</sub> is hydrogen, C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy or halogen; Y<sub>5</sub> is amino or C<sub>1</sub>-C<sub>4</sub> alkoxy; and Z is hydrogen, halogen, or NH<sub>2</sub>;

or a pharmaceutically acceptable salt thereof.

4. A compound of Claim 1 wherein X<sub>1</sub> is fluoro and X<sub>2</sub> is hydrogen.

5. A compound of Claim 1 wherein  $X_1$  is hydrogen and  $X_2$  is fluoro.
6. A compound of Claim 2 or 3 wherein R is hydrogen.
7. A compound of Claim 1, 2 or 3 wherein V is oxy.
8. A compound of Claim 1, 2 or 3 wherein Z is hydrogen.
9. A compound of Claim 1, 2 or 3 wherein  $Y_1$  is a CH group.
10. A compound of Claim 1, 2 or 3 wherein  $Y_2$  is nitrogen.
11. A compound of Claim 1, 2 or 3 wherein  $Y_3$  is nitrogen.
12. A compound of Claim 1, 2 or 3 wherein Z is hydrogen.
13. A compound of Claim 1, 2 or 3 wherein  $Y_2$  is a CH group.
14. A method of treating a patient afflicted with a neoplastic disease state comprising the administration thereto of a therapeutically effective antineoplastic amount of a compound of Claim 1, 2 or 3.
15. A method of treating a patient afflicted with a viral infection comprising the administration thereto of a therapeutically effective antiviral amount of a compound of Claim 1, 2 or 3.
16. A method of controlling the growth of a neoplasm in a patient afflicted with a neoplastic disease state comprising administration thereto of a therapeutically effective antineoplastic amount of a compound of Claim 1, 2 or 3.

17. A method of controlling a viral infection in a patient afflicted therewith comprising administration thereto of a therapeutically effective antiviral amount of a compound of Claim 1, 2 or 3.

18. A pharmaceutical composition comprising a therapeutically effective amount of a compound of Claim 1, 2 or 3 in admixture or otherwise in association with one or more pharmaceutically acceptable carriers or excipients.

19. A compound of Claim 1 wherein the compound is 2'-deoxy-2'-difluoromethylidene-cytidine.

20. The compound of Claim 1 wherein the compound is 2'-deoxy-2'-difluoromethylidene-uridine.

21. The compound of Claim 1 wherein the compound is 2'-deoxy-2'-difluoromethylidene-guanosine.

22. A compound of Claim 1 wherein the compound is (E)-2'-deoxy-2'-fluoromethylidene-cytidine.

23. A compound of Claim 1 wherein the compound is (Z)-2'-deoxy-2'-fluoromethylidene-cytidine.

24. A compound of Claim 1 wherein the compound is (Z) or (E)-2'-deoxy-2'-fluoromethylidene-uridine.

25. A compound of Claim 1 wherein the compound is (Z) or (E)-2'-deoxy-2'-fluoromethylidene-guanosine.

26. The compound of Claim 2 wherein the compound is 2'-deoxy-2'-ethenylidene-cytidine.

27. The compound of Claim 2 wherein the compound is 2'-deoxy-2'-ethenylidene-uridine.

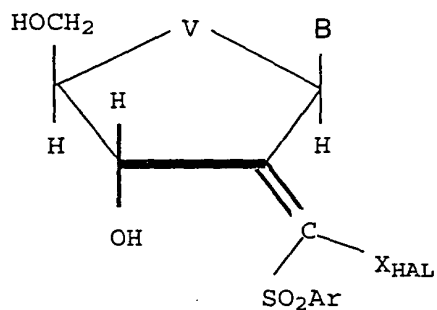
28. A compound of Claim 2 wherein the compound is 2'-deoxy-2'-ethenylidene-guanosine.

29. A compound of Claim 3 wherein the compound is 2'-deoxy-2' (R or S)-ethynyl-cytidine.

30. A compound of Claim 3 wherein the compound is 2'-deoxy-2' (R or S)-ethynyl-uridine.

31. A compound of Claim 3 wherein the compound is 2'-deoxy-2' (R or S)-ethynyl-guanosine.

32. A compound of the formula



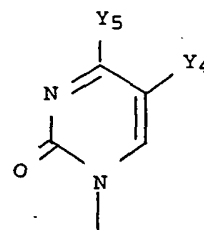
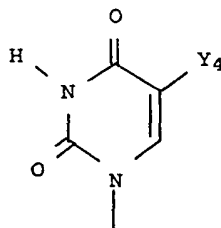
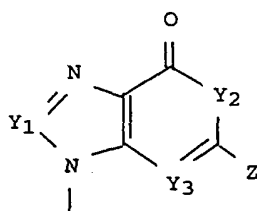
wherein

$\text{V}$  is oxy, methylene, or thio,

$\text{X}_{\text{HAL}}$  is halogen,

$\text{Ar}$  is a  $\text{C}_6\text{-C}_{12}$  aryl group,

$\text{B}$  is a radical of the formula



wherein  $Y_1$  is nitrogen, a CH group, a CCl group, a CBr group or a  $CNH_2$  group;  $Y_2$  and  $Y_3$  are each independently nitrogen or a CH group;  $Y_4$  is hydrogen,  $C_1$ - $C_4$  alkyl,  $C_1$ - $C_4$  alkoxy or halogen;  $Y_5$  is amino or  $C_1$ - $C_4$  alkoxy; and Z is hydrogen, halogen, or  $NH_2$ .

33. A compound of Claim 32 wherein Ar is phenyl.

34. A compound of Claim 33 wherein  $X_{HAL}$  is fluorine.

35. A composition comprising a compound of Claim 1, 2, 3, or 32 in admixture or otherwise in association with an inert carrier.